



HIV/AIDS in Suburban Washington: An Epidemiological Profile

Colin Flynn, Chief

Center for HIV Surveillance & Epidemiology

Infectious Disease & Environmental Health Admin.

Maryland Department of Health & Mental Hygiene

May 15, 2012



IDEHA Mission

- To improve the health of Marylanders by reducing the transmission of infectious diseases, helping impacted persons live longer, healthier lives, and protecting individuals and communities from environmental health hazards
- We work in partnership with local health departments, providers, community based organizations, and public and private sector agencies to provide public health leadership in the prevention, control, monitoring, and treatment of infectious diseases and environmental health hazards.



National Data



U.S. HIV/AIDS Prevalence



- At the end of 2009, an estimated 1.2 million Americans were infected with HIV
- It is also estimated that 20% of the infected were undiagnosed
 - CDC. HIV in the United States. Fact Sheet, Nov. 2011. Atlanta.



2010 Estimated HIV Diagnoses, Ranked by Rates

<u>STATE/TERRITORY</u>	<u>Cases</u>	<u>Rate per 100,000</u>
1. District of Columbia*	939	156.7
2. Virgin Islands	47	42.8
3. Florida	5,782	31.2
4. Maryland*	1,708	30.0
5. Louisiana	1,279	28.5
6. Puerto Rico	1,118	28.2
7. New York	5,321	27.2
8. Georgia	2,581	26.3
9. New Jersey	2,207	25.3
10. South Carolina	914	20.0
<hr/>		
<i>United States**</i>	<i>48,298</i>	<i>16.3</i>

CDC. HIV Surveillance Report, 2010. Vol. 22. Table 19.

* Maryland DHMH estimates from CDC data.

** Based on 46 states and 5 territories.

Maryland Infectious Disease and
Environmental Health Administration
May 15, 2012



2009 Estimated Adults Living with HIV, Ranked by Rates

<u>STATE/TERRITORY</u>	<u>Cases</u>	<u>Rate per 100,000</u>
1. District of Columbia*	13,973	2,330.2
2. New York	130,608	795.9
3. Virgin Islands	573	632.7
4. Florida	92,874	594.8
5. Puerto Rico	18,350	555.7
6. Maryland*	29,282	513.8
7. New Jersey	36,041	497.1
8. Georgia	35,129	442.6
9. Louisiana	16,211	440.4
10. Delaware	2,913	395.8
<hr/>		
<i>United States**</i>	<i>800,784</i>	<i>327.6</i>

CDC. HIV Surveillance Report, 2010. Vol. 22. Table 21.

* Maryland DHMH estimates from CDC data.

** Based on 46 states and 5 territories.

Maryland Infectious Disease and
Environmental Health Administration
May 15, 2012



2010 Estimated HIV Diagnoses, Ranked by Rates

<u>METROPOLITAN AREA</u>	<u>Cases</u>	<u>Rate per 100,000</u>
1. Miami, FL	2,757	49.7
2. Baton Rouge, LA	339	43.0
3. New Orleans-Metairie-Kenner, LA	439	36.9
4. <i>Washington, DC-VA-MD-WV*</i>	<i>1,995</i>	<i>36.4</i>
5. <i>Baltimore-Towson, MD*</i>	<i>951</i>	<i>35.4</i>
6. Jackson, MS	184	34.0
7. Memphis, TN-MS-AR	440	33.7
8. Orlando, FL	686	32.9
9. New York, NY-NJ-PA	6,160	32.3
10. Columbia, SC	230	30.9
<hr/>		
<i>United States**</i>	<i>47,692</i>	<i>16.3</i>

CDC. HIV Surveillance Report, 2010. Vol. 22. Table 24.

* Maryland DHMH estimates from CDC data.

** Based on 46 states and 5 territories.

Maryland Infectious Disease and
Environmental Health Administration
May 15, 2012



2009 Estimated Adults Living with HIV, Ranked by Rates

<u>METROPOLITAN AREA</u>	<u>Cases</u>	<u>Rate per 100,000</u>
1. Miami, FL	48,177	868.5
2. New York, NY-NJ-PA	140,988	739.3
3. Baltimore-Towson, MD*	18,116	673.3
4. New Orleans-Metairie-Kenner, LA	7,380	620.2
5. Jackson, MS	2,952	545.8
6. San Francisco, CA	23,101	535.0
7. Washington, DC-VA-MD-WV*	29,163	532.5
8. Memphis, TN-MS-AR	6,891	528.1
9. Baton Rouge-LA	3,779	480.2
10. San Juan-Caguas-Guaynabo, PR	12,505	477.8
<hr/>		
<i>United States**</i>	<i>793,935</i>	<i>271.4</i>

CDC. HIV Surveillance Report, 2010. Vol. 22. Table 24.

* Maryland DHMH estimates from CDC data.

** Based on 46 states and 5 territories.

Maryland Infectious Disease and
Environmental Health Administration
May 15, 2012



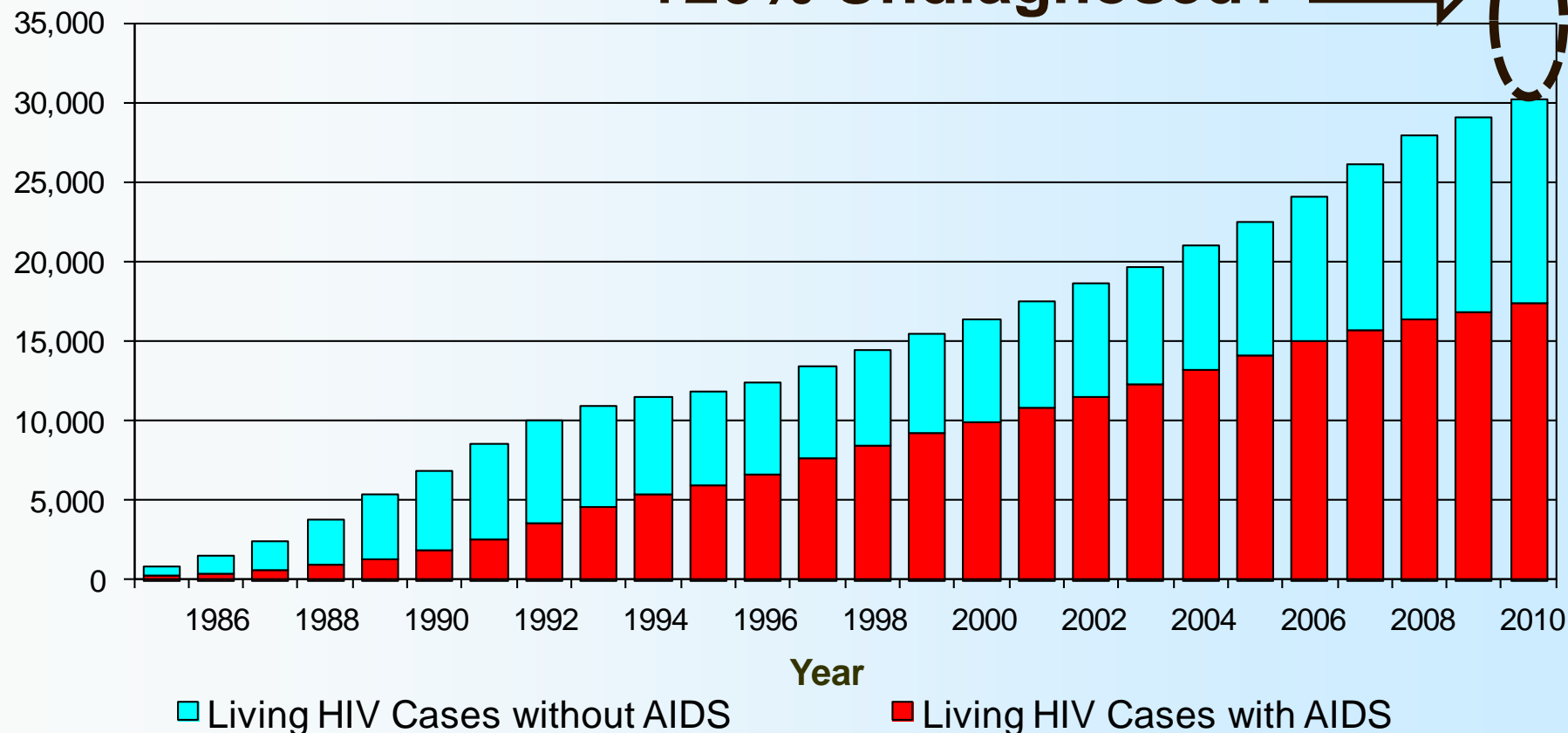
State Data



Maryland Living HIV Cases

Number of Cases

+20% Undiagnosed? →



Using data as reported through 12/31/2011

Maryland Infectious Disease and
Environmental Health Administration
May 15, 2012



Maryland Adult/Adolescent HIV/AIDS Statistics



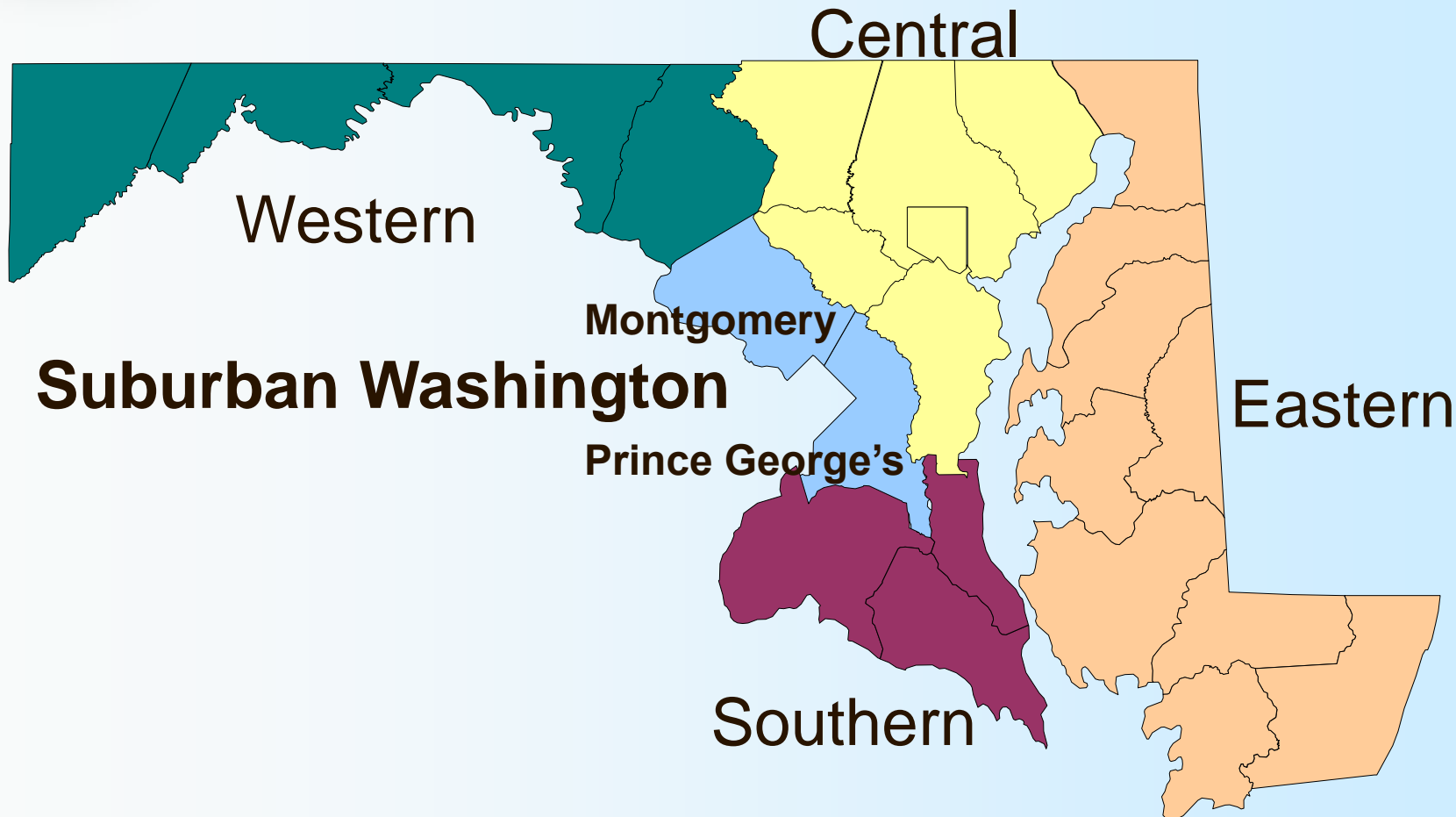
Reported Diagnoses (during 2010)	No.	per 100,000
HIV	1,430	29.7
AIDS	909	18.9

Living Cases (on 12/31/10)	No.	per 100,000	1 in X
HIV without AIDS	12,465	258.8	
HIV with AIDS	17,177	356.6	
Total HIV	29,642	615.5	162

Using data as reported through 12/31/2011

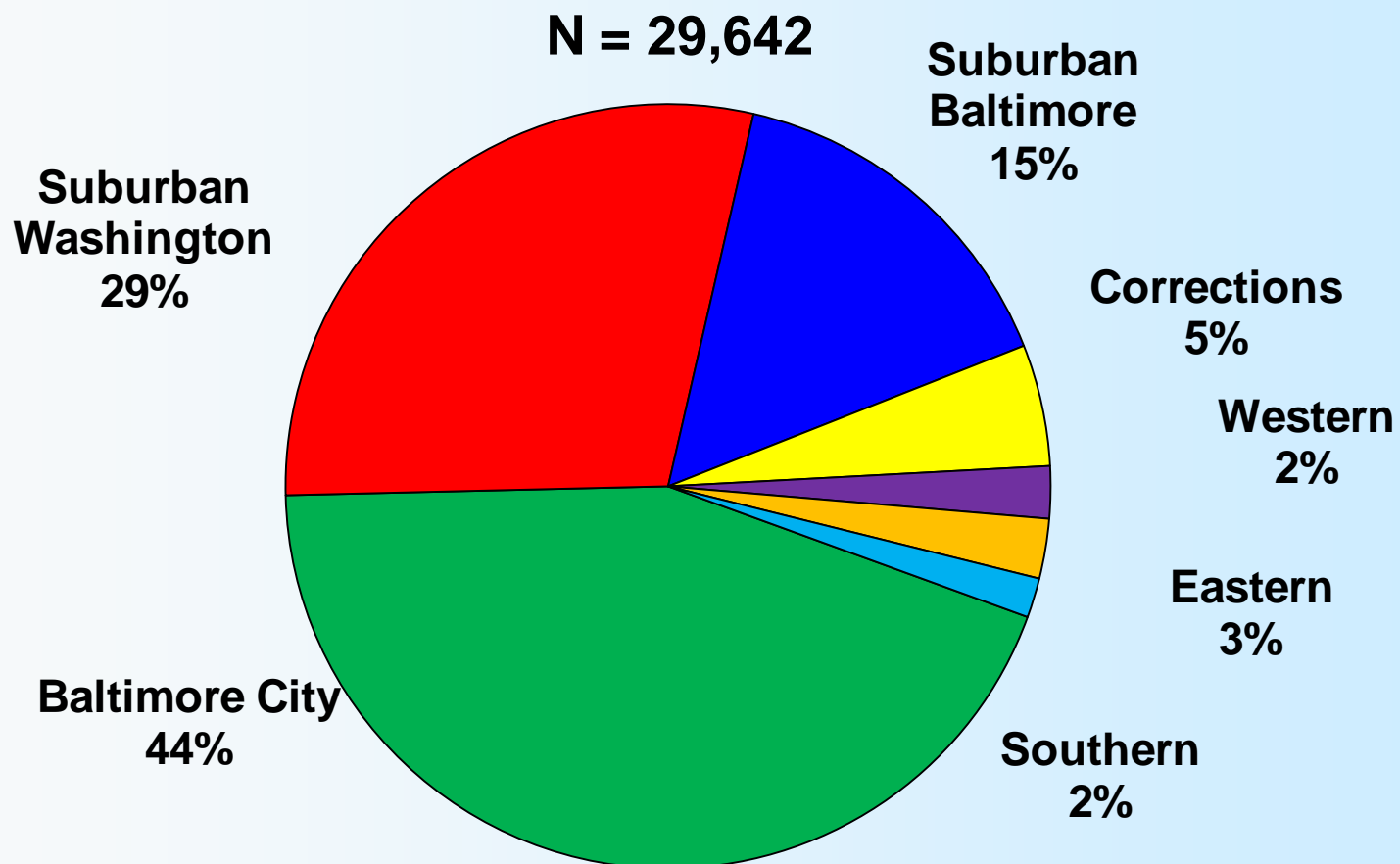


Maryland Regional Advisory Committee Regions





Maryland Living Adult/Adolescent HIV Cases by Region, 12/31/10



Using data as reported through 12/31/2011



Regional Data



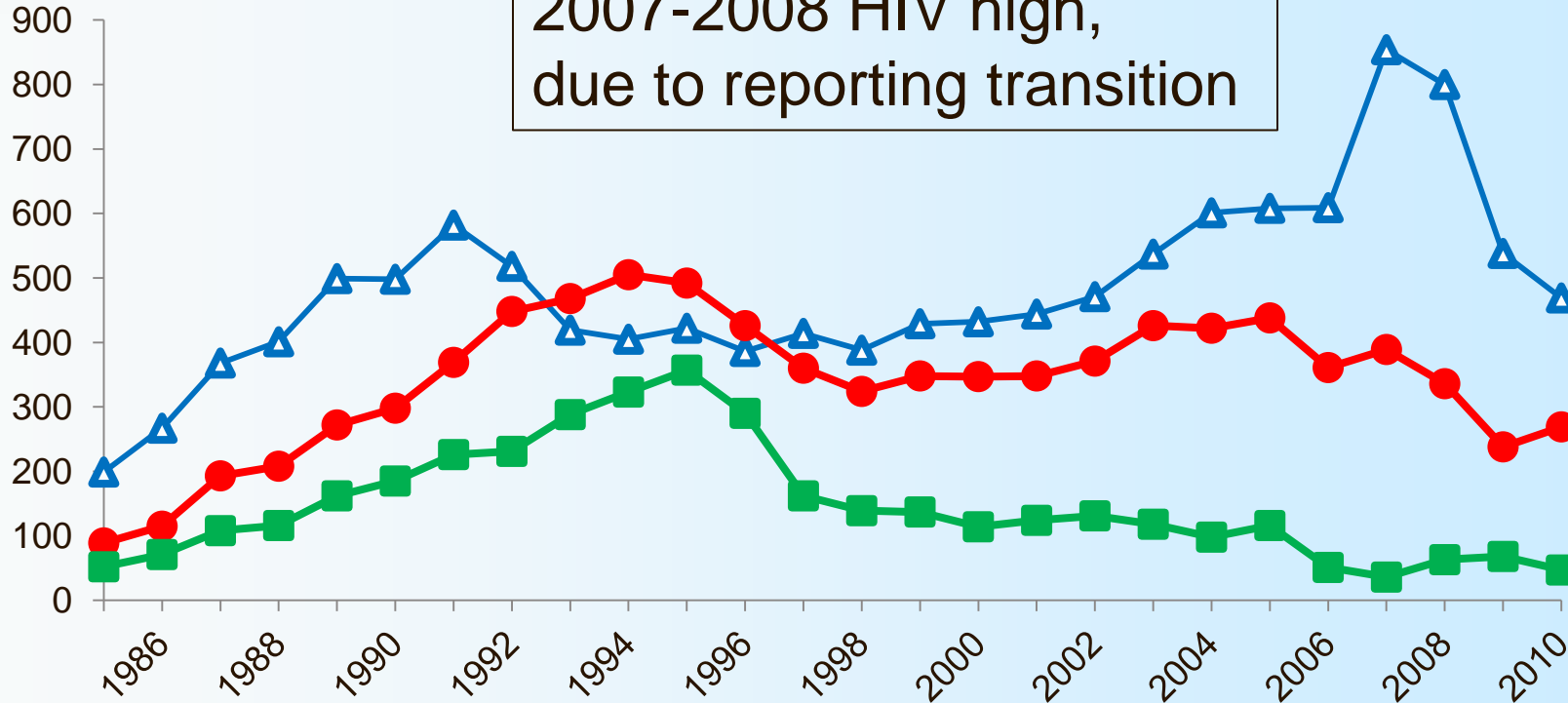
HIV/AIDS Trends

Suburban Washington



Number of Events

2007-2008 HIV high,
due to reporting transition



▲ Reported HIV Diagnoses ● Reported AIDS Diagnoses ■ Reported AIDS Deaths

Using data as reported through 12/31/2011

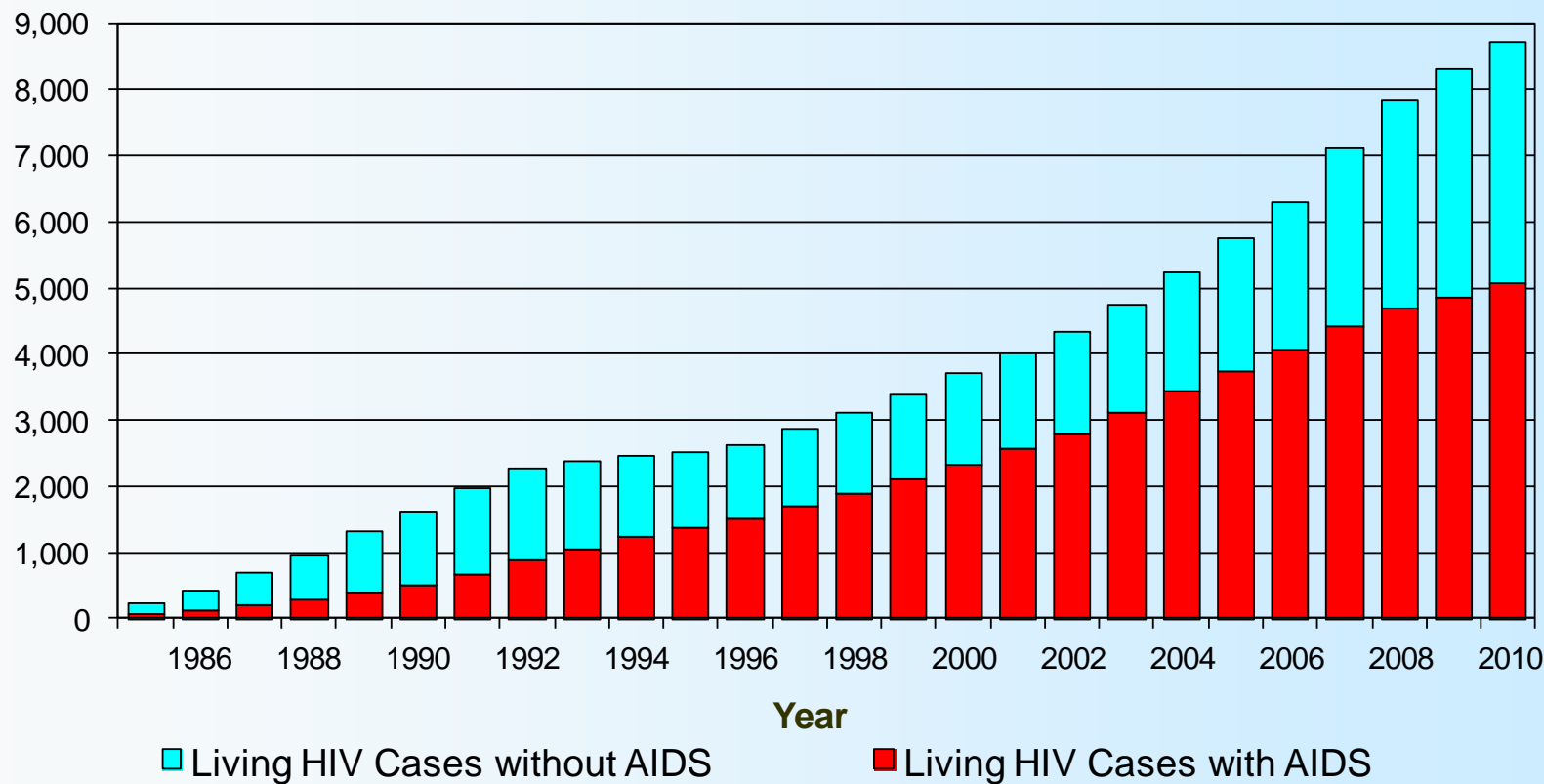
Maryland Infectious Disease and
Environmental Health Administration
May 15, 2012



Living HIV Cases Suburban Washington



Number of Cases



Using data as reported through 12/31/2011

Maryland Infectious Disease and
Environmental Health Administration
May 15, 2012



HIV Statistics

Adult/Adolescent Cases

Suburban Washington

	Reported HIV Diagnoses during 2010	Living HIV Cases on 12/31/2010
Suburban Washington	438	8,585
Montgomery	144	3,051
Prince George's	324	5,534

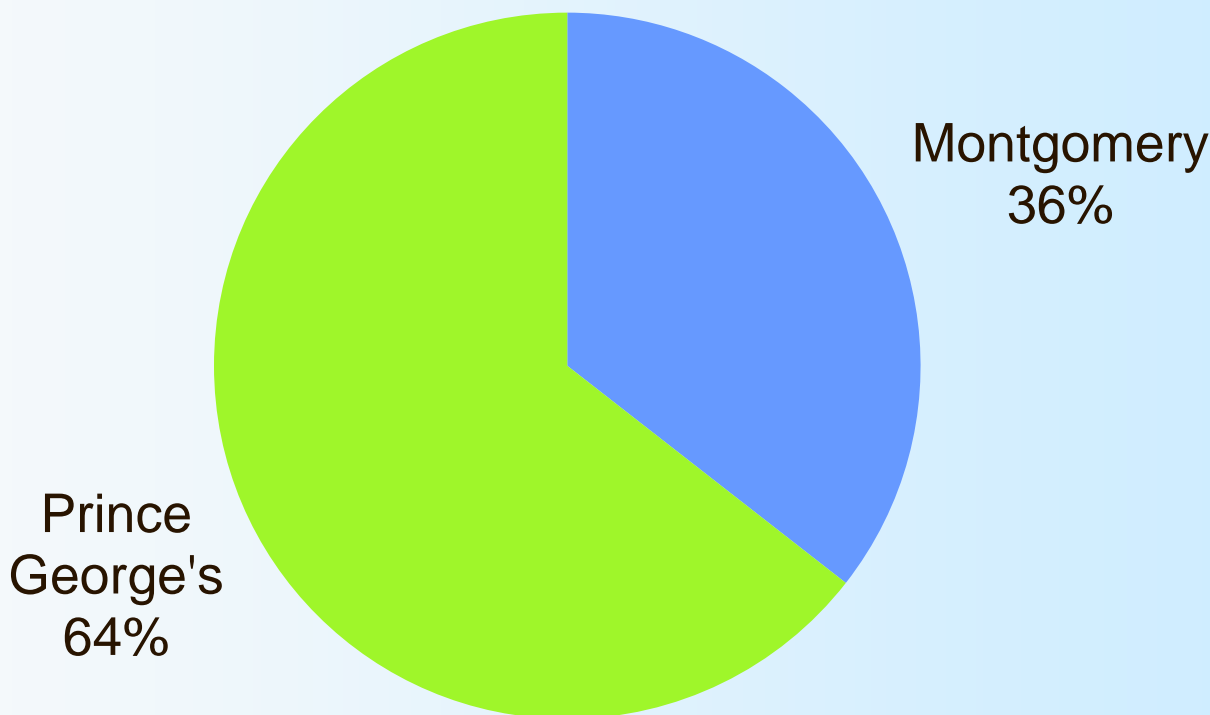
Using data as reported through 12/31/2011



Suburban Washington Living Adult/Adolescent HIV Cases by County, 12/31/10



N = 8,585

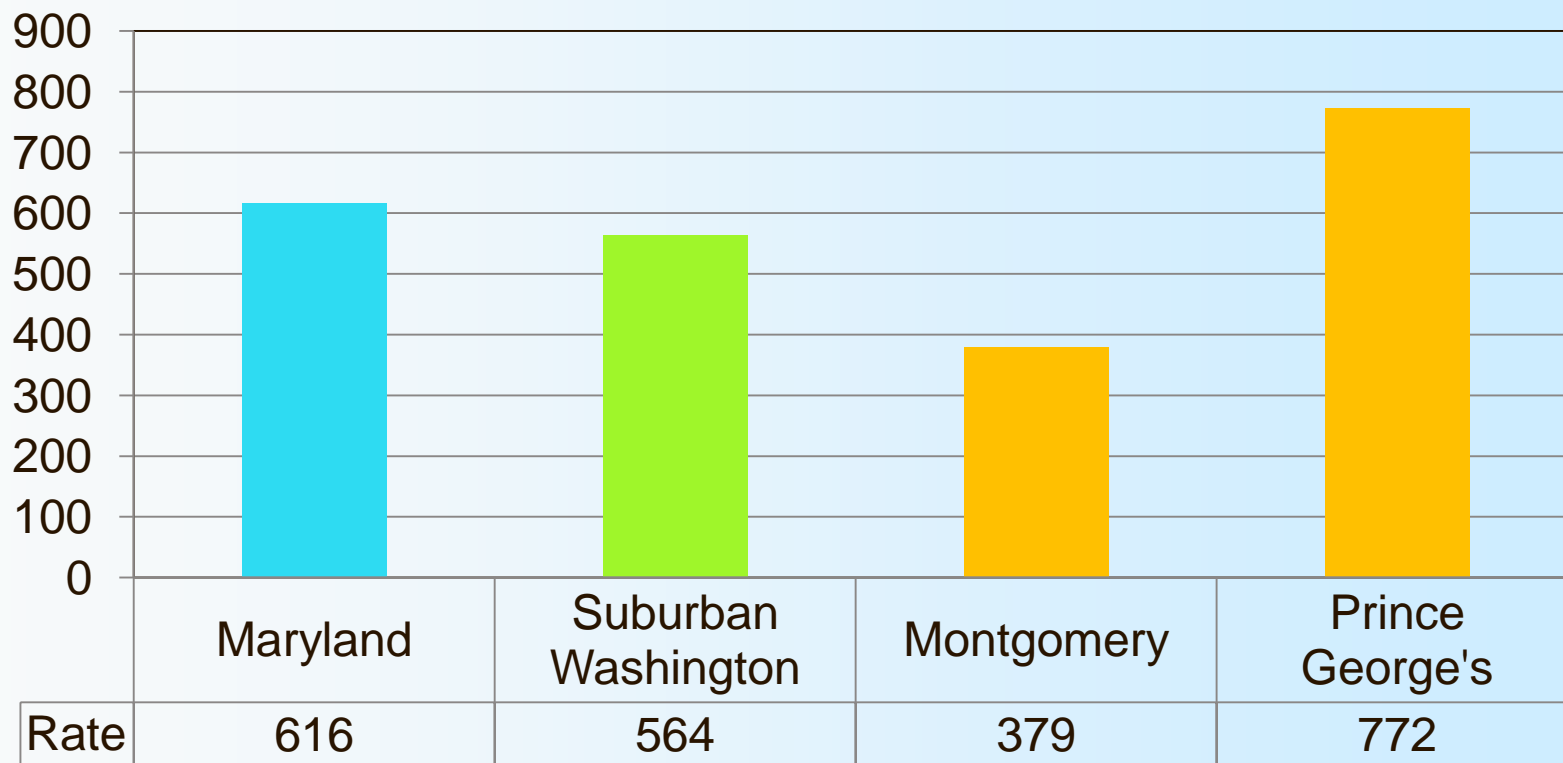


Using data as reported through 12/31/2011

Maryland Infectious Disease and
Environmental Health Administration
May 15, 2012



Living Adult/Adolescent HIV Cases Rates per 100,000 Population by County, Suburban Washington, 12/31/10

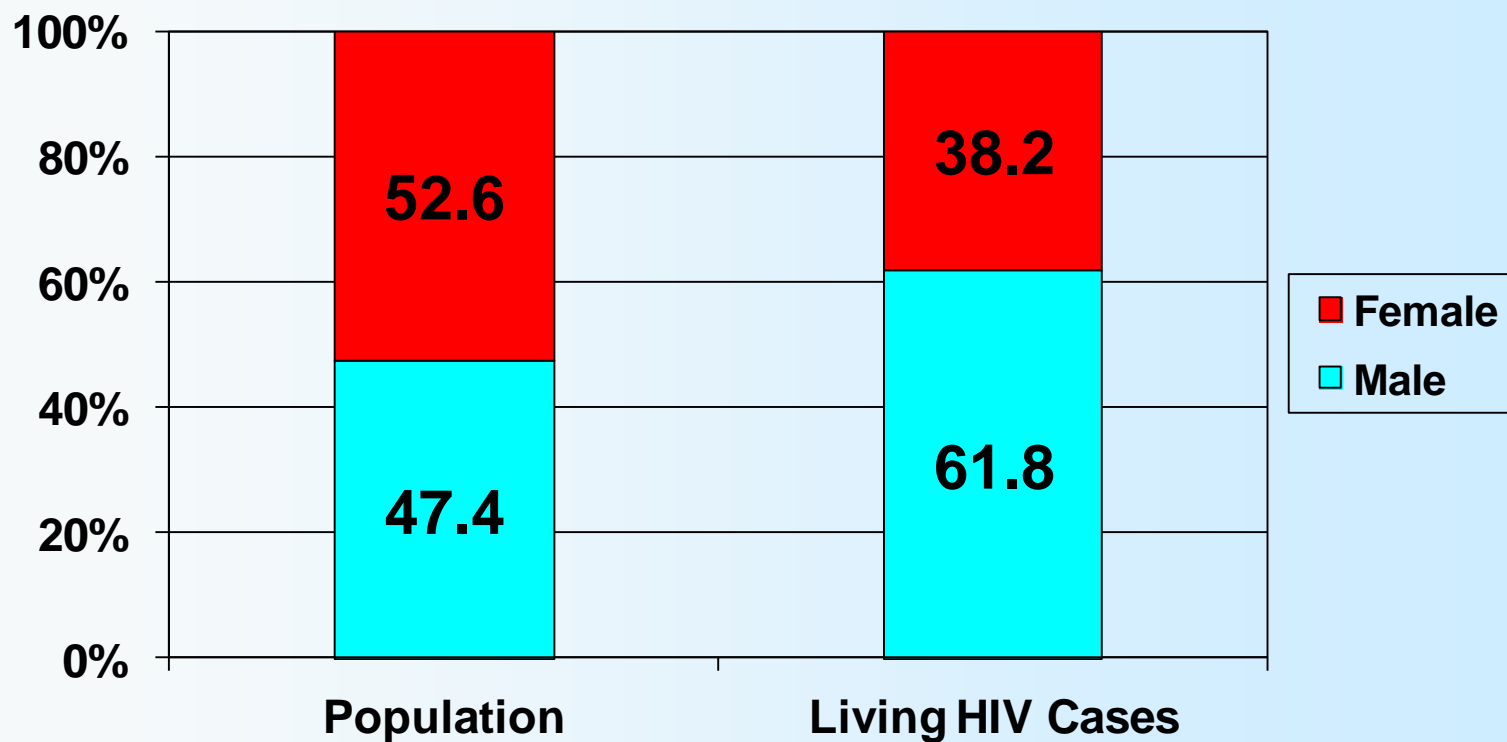


Population on 4/1/10. Cases on 12/31/10
as reported through 12/31/11

Maryland Infectious Disease and
Environmental Health Administration
May 15, 2012



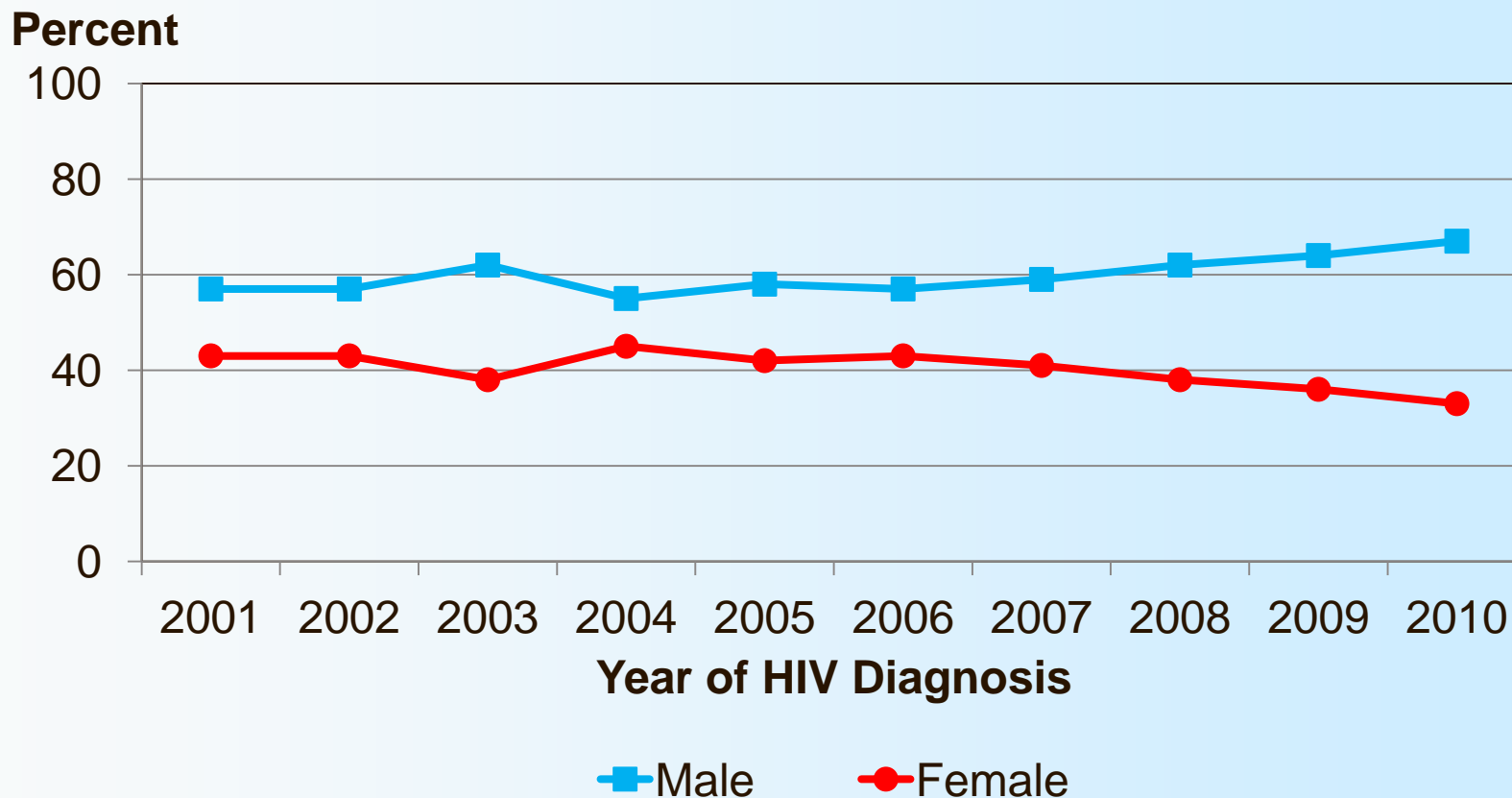
Adult/Adolescent Population and Living HIV Cases by Sex at Birth Suburban Washington



Population on 4/1/10, Cases on 12/31/10
as reported through 12/31/11



Reported Adult/Adolescent HIV Diagnosis Trends by Sex at Birth, Suburban Washington

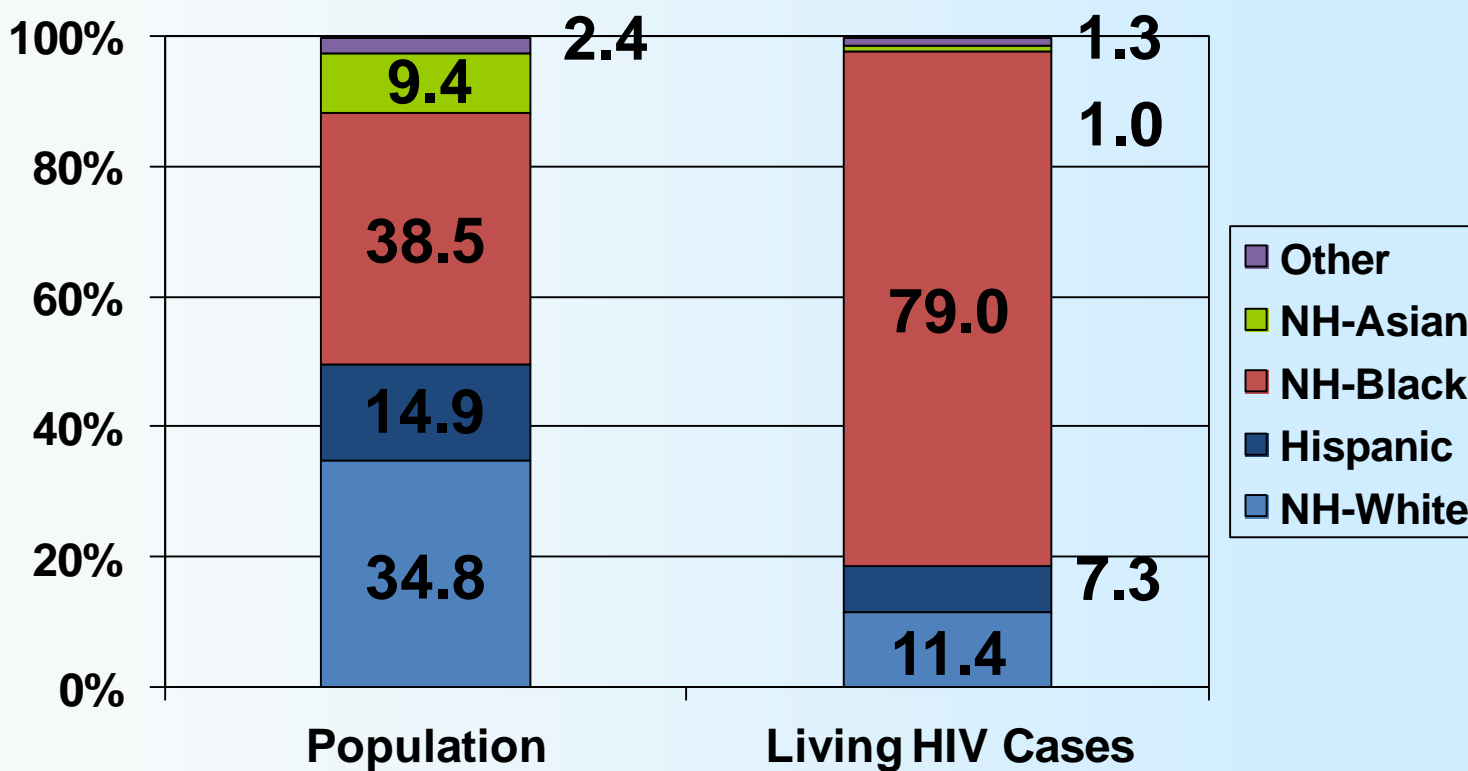


Using data as reported through 12/31/2011

Maryland Infectious Disease and
Environmental Health Administration
May 15, 2012



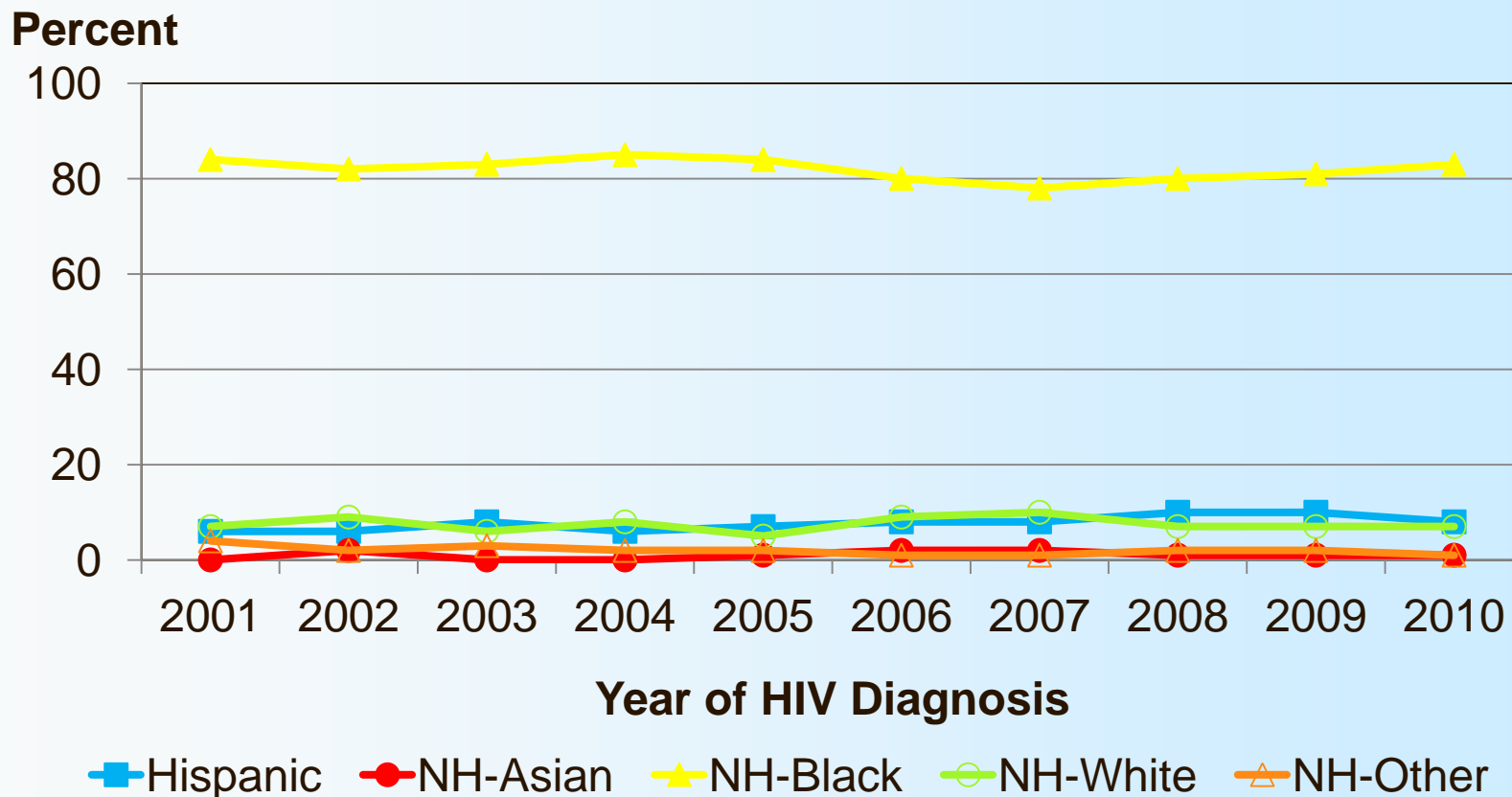
Adult/Adolescent Population and Living HIV Cases by Race/Ethnicity, Suburban Washington



Population on 4/1/10, Cases on 12/31/10
as reported through 12/31/11



Reported Adult/Adolescent HIV Diagnosis Trends by Race/Ethnicity, Suburban Washington

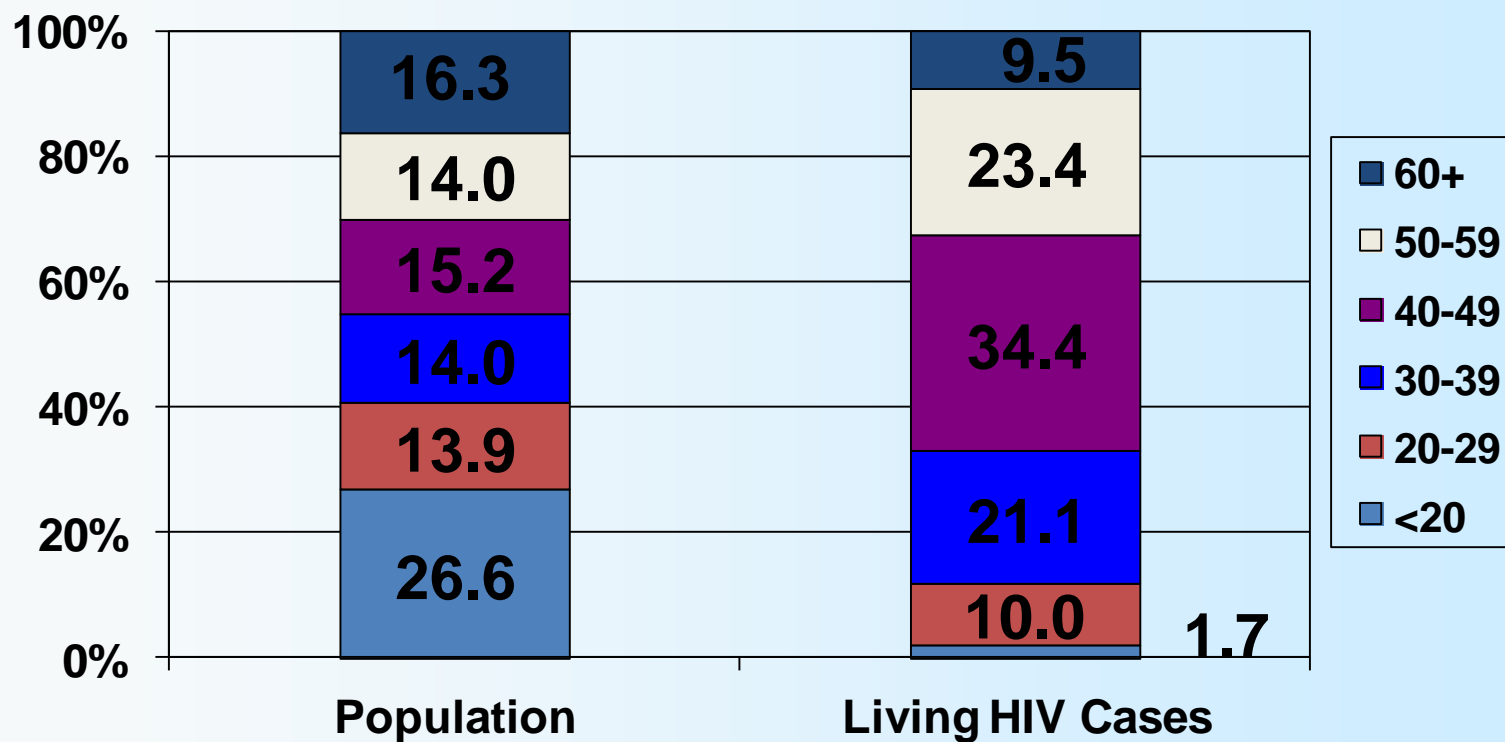


Using data as reported through 12/31/2011

Maryland Infectious Disease and
Environmental Health Administration
May 15, 2012



Population and Living HIV Cases by Age, Suburban Washington

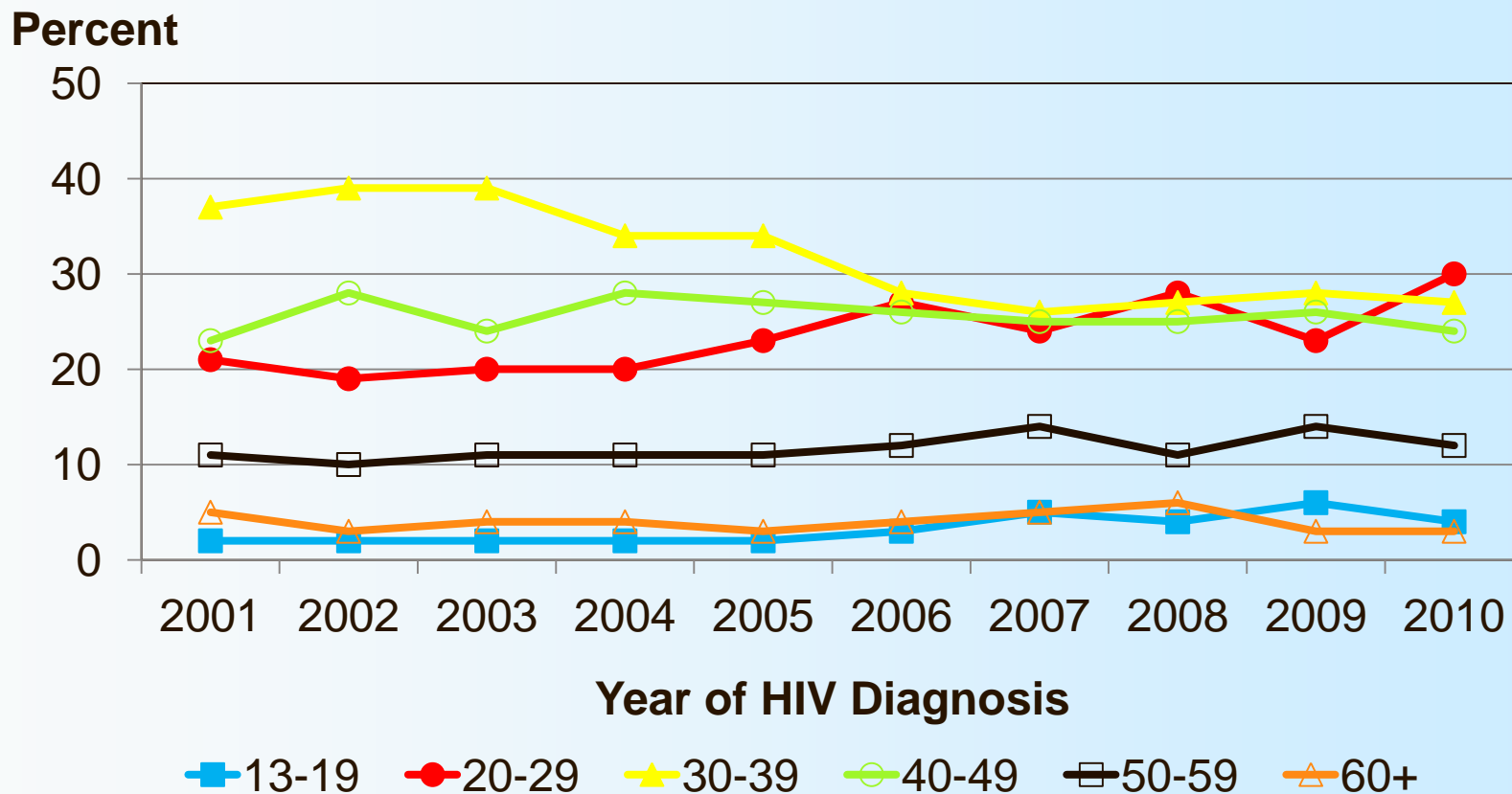


Population on 4/1/10, Cases on 12/31/10
as reported through 12/31/11

Maryland Infectious Disease and
Environmental Health Administration
May 15, 2012



Reported Adult/Adolescent HIV Diagnosis Trends by Age at Diagnosis, Suburban Washington



Using data as reported through 12/31/2011



Exposure Categories

MSM: Men who have Sex with Men

IDU: Injection Drug Use

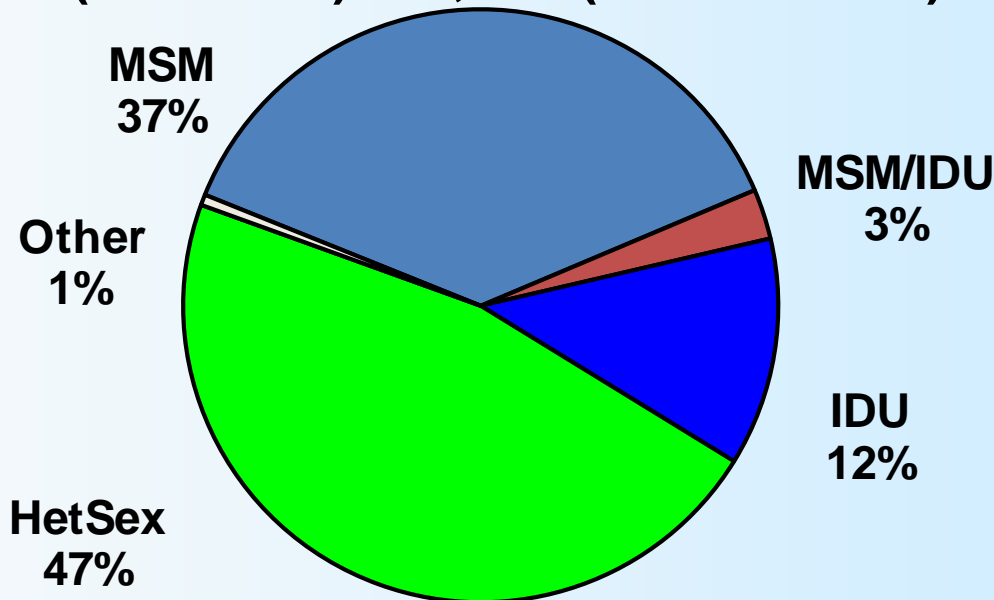
MSM/IDU: Men who have Sex with Men AND Inject Drugs

HetSex: Heterosexual Contact with a Person that has or is at Risk for HIV Infection



Living Adult/Adolescent HIV Cases 12/31/10 by Exposure Category, Suburban Washington

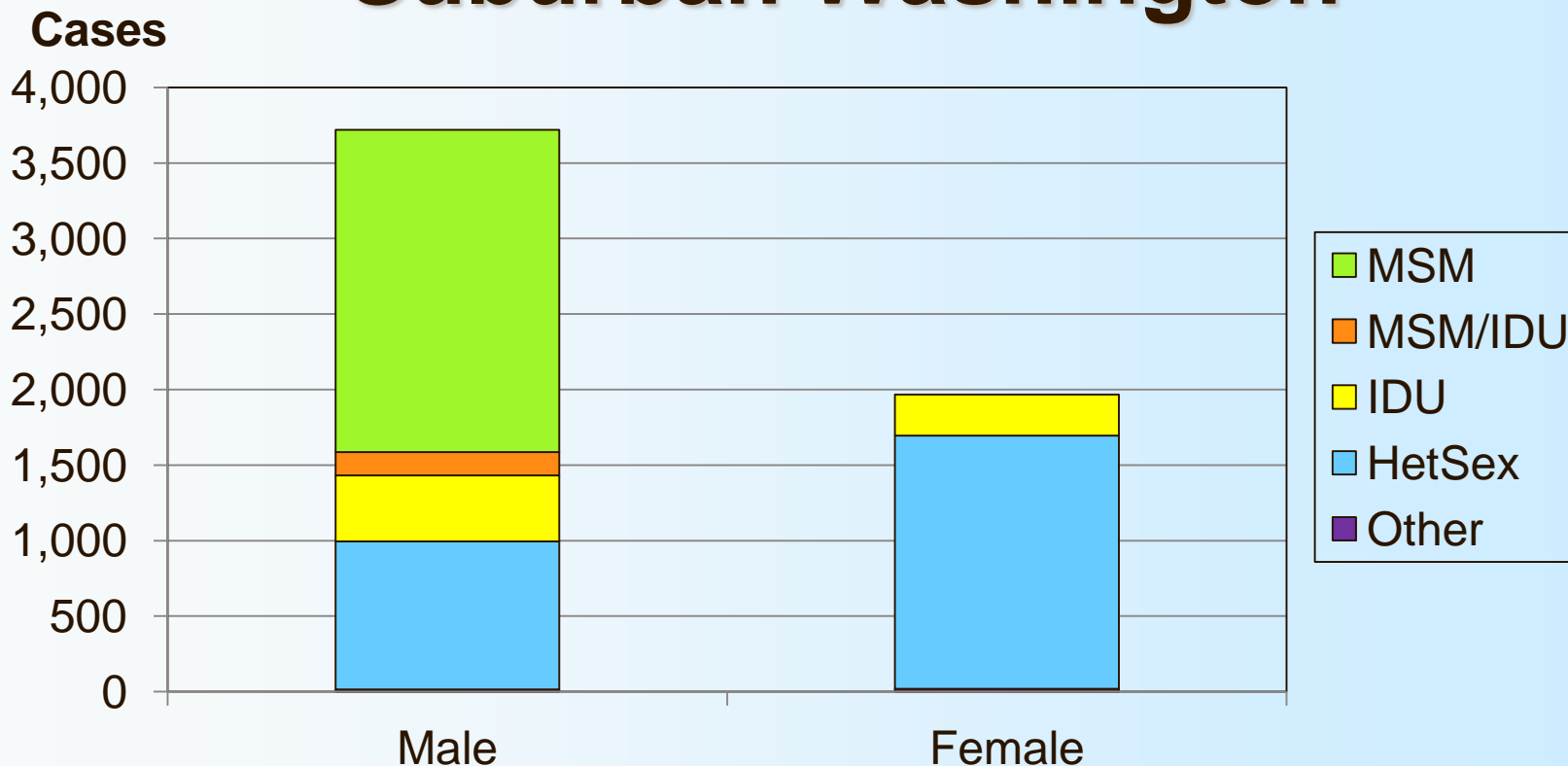
N (with Risk) = 5,686 (66% of Total)



Using data as reported through 12/31/2011



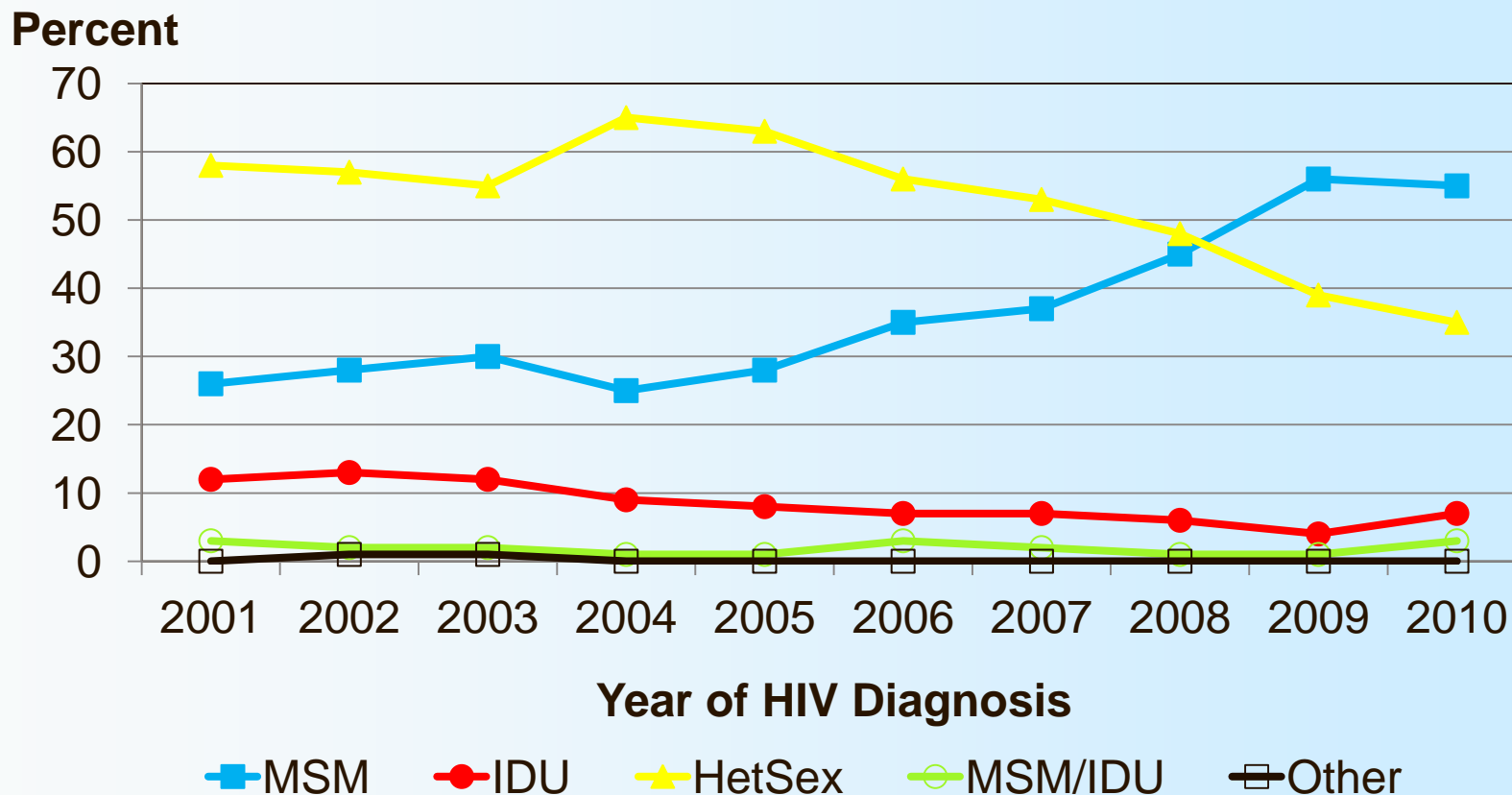
Living Adult/Adolescent HIV Cases 12/31/10 by Exposure Category and Sex at Birth Suburban Washington



Using data as reported through 12/31/2011



Reported Adult/Adolescent HIV Diagnoses, Exposure Category Trends, Suburban Washington



Using data as reported through 12/31/2011

Maryland Infectious Disease and
Environmental Health Administration
May 15, 2012



2010 Reported Adult/Adolescent HIV Diagnoses (N=468) Suburban Washington



- Linkage to Care: 65% had a CD4 or VL test within 3 months of HIV diagnosis
- CD4 at Diagnosis: 71% had a CD4 test within 12 months of HIV diagnosis, and the median value was 332 cells/microliter
- Late HIV Diagnosis: 33% had an AIDS diagnosis within 12 months of their HIV diagnosis

Using data as reported through 12/31/2011



2010 Reported Adult/Adolescent AIDS Diagnoses (N=266) Suburban Washington



- Progression: The average time from HIV diagnosis to AIDS diagnosis was 2.7 years
- Late HIV Diagnosis: 62% were diagnosed with AIDS within 12 months of their HIV diagnosis

Using data as reported through 12/31/2011



Regional Summary



HIV/AIDS in the Suburban Washington Region



- There were 8,585 living adult/adolescent HIV cases at the end of 2010 and 468 reported adult/adolescent HIV diagnoses during 2010
- Prince George's County had the greatest share of cases (64%)
- Rates of living cases were two times higher in Prince George's than in Montgomery
- HIV was being diagnosed late (33% late, median CD4 332), contributing to many AIDS diagnoses (62% had late HIV diagnosis)



HIV/AIDS in the Suburban Washington Region: Demographics



- Males were disproportionately affected (62% of cases vs. 47% of population), and the proportion male was increasing
- Non-Hispanic blacks were disproportionately affected (79% vs. 38%), but the proportion Hispanic, while small (7%), was increasing
- Persons 30-59 years old were disproportionately affected (79% vs. 43%), and proportions were increasing among 20-29 and 50-59 year olds while decreasing among 30-39 year olds



HIV/AIDS in the Suburban Washington Region: Transmission Risk



- Sexual transmission predominates (>84%)
 - Homosexual and heterosexual transmission among men
 - Heterosexual transmission among women
 - Male homosexual transmission proportion was increasing
 - Heterosexual transmission was decreasing
- Injection drug use is an important route of transmission (>12%), but proportion IDU was decreasing



National HIV/AIDS Strategy

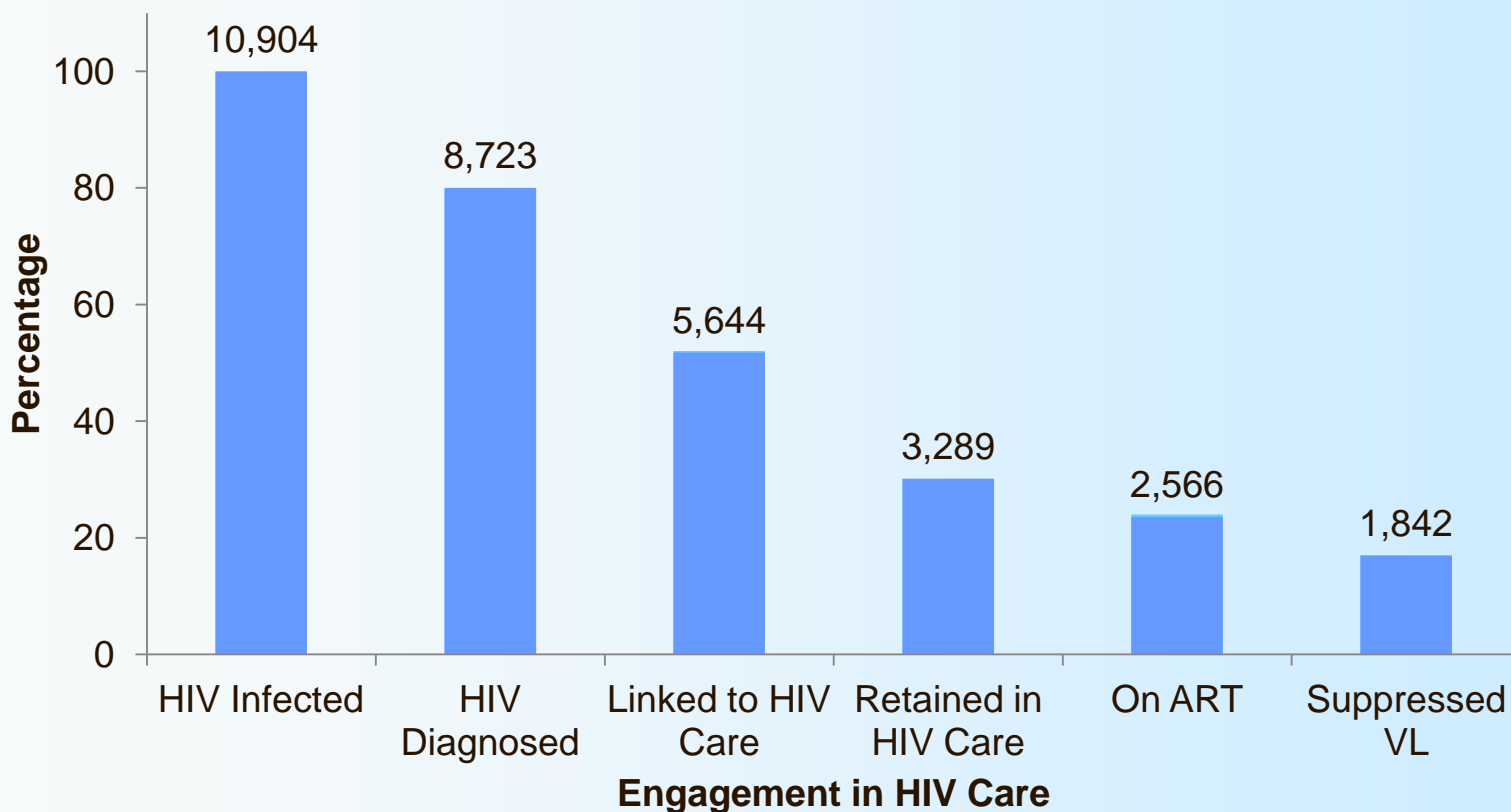
Goals:

- Reducing HIV incidence
- Increasing access to care and optimizing health outcomes
- Reducing HIV-related health disparities
- Achieving a more coordinated national response



Continuum of Care

Estimated number and percentage of HIV infected persons engaged in selected stages of the continuum of care, Suburban Washington Region of Maryland 2010





Maryland Infectious Disease and Environmental Health Administration

<http://ideha.dhmmh.maryland.gov/ideha/chse>